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**Subject:** Kalamazoo Area 1 Remedial Reach SWAC calculations - DRAFT  
**Date:** Friday, December 20, 2013 2:55:33 PM  
**Attachments:** [2012 12 18 Area 1 FS SWAC Evaluation Tables.xlsx](#)

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Jim and Paul

There are 5 tables (tabs) in the attached workbook. Tables 1 and 3 present various SWACs for the GIS stream tube method for S-3 and S-4, respectively, as we discussed previously with John Kern. Tables 2 and 4 present SWACs and LCLs/UCLs using the arithmetic method or “back of the envelope method” for S-3 and S-4, respectively, as discussed with John. When you compare the methods, the results for the “best estimate” SWAC value (S-3C) and (S-4F) are very similar to the arithmetic method SWACs method. **Table 5 represents the bounds on the pre and post SWACs for the remediation reach, with our best estimate SWAC from the stream tube GIS method.** I look forward to reviewing these values with you during our mid January 2014 meeting and completing the fish tissue projections. If you would like a conference call to walk through these values before then, let me know and we can set something up.

Wishing you a Happy Holiday and success and good health in the New Year!

**Cynthia Draper, P.E. (GA)**, Project Manager

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